# ENGINEER'S ESTIMATE OF PROBABLE COSTS ORTON SLOUGH DRAINAGE DISTRICT, WOODBURY COUNTY OPTION 1: PROPOSED RELIEF TILE PARALLEL TO EXISTING TILE

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
1.	Mobilization	1	JOB	34,250.00	\$34,250.00
2. 3.	2000D Reinforced Concrete Pipe, 54" Dia. Furnish & Install CMP Tile Extension, 60" Dia.	6,785 20	LF LF	95.50 92.00	\$647,967.50 \$1,840.00
3. 4.	54" Dia. R.C.P. Elbow Section, Fabrication Only	3	EA	600.00	\$1,800.00
5.	Drop Inlet Structure, 72" Dia.	1	EA	5,200.00	\$5,200.00
6.	Existing Tile Cross Connection	1	EA	1,000.00	\$1,000.00
7.	Topsoil Strip, Stockpile, Respread	37,695	SY	0.50	\$18,847.50
8.	Tile Trench Stabilization and Cradling Rock	300	TN	25.00	\$7,500.00
9.	Fence Cuts	4.00	EA	235.00	\$940.00
	Estimated Construction Subtotal:				\$719,345.00
	Engineering Services:				
	Design Survey				\$6,550.00
	Research, Preliminary Design & Informal Hearings				\$30,000.00
	Design Plans, Engineer's Report & Formal Hearings				\$19,000.00
	Final Plans, Specifications & Bidding				\$14,750.00
	Construction Administration				\$12,300.00
	Construction Staking & Observation				\$15,600.00
	Wetland Determination, Permits & Mitigation				\$3,500.00
	Legal & Auditor Services, Publications, Misc.				\$1,200.00
	Crop Damages (7.8 AC Corn @ \$745.00/AC)				\$5,850.00
	Contingencies				\$71,900.00
	Improvement Project Cost Subtotal :				\$899,995.00
	Other Potential District Costs:				
	Annexation				\$2,000.00
	Reclassification Project Warrant Interest				\$18,060.00 \$84,200.00
	Wetland Mitigation - 50% District for 4.4 AC				\$44,000.00
	TOTAL ESTIMATED PROJECT COST, OPTION 1				\$1,048,255.00
	Average Cost per Assessed Acre (2394 acres)				\$437.87
	Average Cost per Watershed Acre (2761 acres)				\$379.66
	Average Cost per Watershed Acre for 10 years				\$37.97
	Other Non-District Costs:				
1.	Concrete Pipe, 3750D, Trenchless, 54" Dia. @				
1.	STA 49+50 - I-29	170	LF	650.00	\$110,500.00
2.	Concrete Pipe, 3750D, Trenchless, 54" Dia.,	170	Li	000.00	ψ110,000.00
	STA 24+50 - D-51	70	LF	650.00	\$45,500.00
0		. •	<del>_</del> -	223.20	
3.	Wetland Mitigation - 50% Landowner for 4.4 AC <b>Probable Non-District Cost:</b>				\$44,000.00 <b>\$200,000.00</b>
	i iodabie noii-district oust.				Ψ200,000.00

### ENGINEERS ESTIMATE OF PROBABLE COSTS ORTON SLOUGH DRAINAGE DISTRICT, WOODBURY COUNTY OPTION 2: PROPOSED NEW TILE ALIGNMENT

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. 2. 3. 4. 5. 6. 7. 8. 9.	Mobilization 2000D Reinforced Concrete Pipe, 60" Dia. Furnish & Install CMP Tile Extension, 72" Dia. 60" Dia. R.C.P. Elbow Section, Fabrication Only Drop Inlet Structure, 84" Dia. Junction Structure, 8'x8' Box 60" Dia. R.C.P. 45° Elbow Section Topsoil Strip, Stockpile, Respread Tile Trench Stabilization and Cradling Rock Fence Cuts	1 6,785 20 2 1 1 4 37,695.00 350.00 4.00	JB LF EA EA EA EA SY TN EA	39,300.00 108.00 116.00 800.00 7,500.00 9,500.00 1,000.00 0.50 25.00 235.00	\$39,300.00 \$732,780.00 \$2,320.00 \$1,600.00 \$7,500.00 \$9,500.00 \$4,000.00 \$18,847.50 \$8,750.00 \$940.00
	Estimated Construction Subtotal:				\$825,537.50
	Engineering Services: Design Survey Research, Preliminary Design & Informal Hearings Design Plans, Engineer's Report & Formal Hearings Final Plans, Specifications & Bidding Construction Administration Construction Staking & Observation Wetland Determination, Permits & Mitigation Legal & Auditor Services, Publications, Misc. Crop Damages 7.8 AC, Corn @ \$745.00/AC Contingencies  Improvement Project Cost Subtotal				\$7,200.00 \$30,000.00 \$19,000.00 \$16,000.00 \$13,400.00 \$17,000.00 \$3,500.00 \$1,200.00 \$5,850.00 \$78,600.00
	Other Potential District Costs: Annexation Reclassification Project Warrant Interest Wetland Mitigation - 50% District for 4.4 AC  TOTAL ESTIMATED PROJECT COST, OPTION 2:  Average Cost per Assessed Acre (2394 acres) Average Cost per Watershed Acre (2761 acres) Average Cost per Watershed Acre for 10 years				\$2,000.00 \$18,060.00 \$91,500.00 \$44,000.00 <b>\$1,172,847.50</b> \$489.91 \$424.79 \$42.48
1. 2. 3.	Other Non-District Costs:  Concrete Pipe, 3750D, Trenchless, 60" Dia. @ STA 49+50 - I-29  Concrete Pipe, 3750D, Trenchless, 60" Dia., STA 24+50 - D-51  Wetland Mitigation - 50% Landowner for 4.4 AC	170 70	LF LF	830.00 830.00	\$141,100.00 \$58,100.00 \$44,000.00
	Probable Non-District Cost :				\$243,200.00

# ENGINEER'S ESTIMATE OF PROBABLE COSTS ORTON SLOUGH DRAINAGE DISTRICT, WOODBURY COUNTY OPTION 3: PROPOSED OPEN DITCH

### **MAIN OPEN DITCH**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
1.	Mobilization	1	JOB	17,300.00	\$17,300.00
2.	Topsoil Strip, Stockpile, Respread	122,617.00	SY	0.50	\$61,308.50
3.	Open Ditch Excavation	59,319	CY	2.95	\$174,991.05
4.	Spoil Bank Leveling (Two Sides)	68.60	STA	125.00	\$8,575.00
5.	Furnish & Install CMP Metal Surface Drain Pipe				
	a. 15" Dia.	120	LF	24.00	\$2,880.00
	b. 18" Dia.	200	LF	28.00	\$5,600.00
	c. 24" Dia.	120	LF	33.00	\$3,960.00
6.	Furnish & Install 60" CMP, Outlet Pipe	60	LF	96.00	\$5,760.00
7.	Fence Removal & Disposal	4.00	STA	55.00	\$220.00
8.	Open Ditch Fertilizing & Seeding	68.60	STA	55.00	\$3,773.00
9.	Roadside Spoil Seeding & Fertilizing	66.20	STA	55.00	\$3,641.00
10.	Furnish & Install Silt Screen Fence	1	JOB	2,500.00	\$2,500.00
	Estimated Main Open Ditch Subtotal :				\$290,508.55
	WATER QUA	ALITY MEASURES			
ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
11.	Furnish & Install Detention Chambers				\$25,000.00
12.	Remove Existing Tile				\$1,200.00
13.	Furnish & Install Tile Cap to Existing Tile				\$500.00
14.	Furnish & Install 60" Dia. Drop Riser				\$5,500.00
15.	Furnish & Install 36" Dia. Tile to Open Ditch				\$32,130.00
16.	Furnish & Install 42" Dia. CMP Tile Outlet				\$1,100.00
17.	Furnish & Install Rock Riffles				\$2,500.00
18.	Channel Sediment Trap Excavation				\$4,194.90
	Estimated Water Quality Measures Subtotal :				\$72,124.90
	Estimated Construction Subtotal:				\$362,633.45
	Engineering Services:				
	Design Survey				\$3,300.00
	Research, Preliminary Design & Informal Hearings				\$30,000.00
	Design Plans, Engineer's Report & Formal Hearings				\$19,000.00
	Final Plans, Specifications & Bidding				\$7,400.00
	Construction Administration				\$6,200.00
	Construction Staking & Observation				\$7,800.00
	Wetland Determination, Permits & Mitigation				\$3,500.00
	Legal & Auditor Services, Publications, Misc.				\$1,200.00
	Crop Damages				
	Main Open Ditch (25.3 AC of Work Limit, Corn @ \$	745.00/AC)			\$18,848.50
	Contingencies				\$35,900.00
	Improvement Project Cost Subtotal				\$495,781.95

# ENGINEER'S ESTIMATE OF PROBABLE COSTS ORTON SLOUGH DRAINAGE DISTRICT, WOODBURY COUNTY OPTION 3: PROPOSED OPEN DITCH

### MAIN OPEN DITCH

	Other Potential District Costs:				
	Right-of-Way				
	MAIN OPEN DITCH				
	Taken R.O.W. (11.31 AC @ \$8,500.00/AC)				\$96,135.00
	Easement R.O.W. (4.15 AC @ \$660.00/AC)				\$2,739.00
	Engineering				\$4,200.00
	Annexation				\$2,000.00
	Reclassification				\$18,060.00
	Geotechnical Investigation				\$7,500.00
	Project Warrant Interest				\$46,500.00
	Wetland Mitigation - 50% District for 4.4 AC				\$44,000.00
	TOTAL ESTIMATED PROJECT COST, OPTION 3				\$716,915.95
	Average Cost per Assessed Acre (2394 acres)				\$299.46
	Average Cost per Watershed Acre (2761 acres)				\$259.66
	Average Cost per Watershed Acre for 10 years				\$25.97
	Other Non-District Costs:				
1.					
1.	Culvert, Concrete Pipe, 3750D, Trenchless, 60" Dia.,	170	LF	830.00	\$141,100.00
1. 2.	Culvert, Concrete Pipe, 3750D, Trenchless, 60" Dia., STA 49+50 - I-29 - Iowa Department of Transportation	170	LF	830.00	\$141,100.00
	Culvert, Concrete Pipe, 3750D, Trenchless, 60" Dia.,	170 70	LF LF	830.00 830.00	\$141,100.00 \$58,100.00

# ENGINEER'S ESTIMATE OF PROBABLE COSTS ORTON SLOUGH DRAINAGE DISTRICT, WOODBURY COUNTY OPTION 3A: PROPOSED MAIN OPEN DITCH & LATERAL NO. 1

### MAIN OPEN DITCH

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
1.	Mobilization	1	JOB	21,000.00	\$21,000.00
2.	Topsoil Strip, Stockpile, Respread	122,617	SY	0.50	\$61,308.50
3.	Open Ditch Excavation	59,319	CY	2.95	\$174,991.05
4.	Spoil Bank Leveling (Two Sides)	68.60	STA	125.00	\$8,575.00
5.	Furnish & Install CMP Metal Surface Drain Pipe				. ,
	a. 15" Dia.	120	LF	24.00	\$2,880.00
	b. 18" Dia.	200	LF	28.00	\$5,600.00
	c. 24" Dia.	120	LF	33.00	\$3,960.00
6.	Furnish & Install 60" CMP, Outlet Pipe	60	LF	96.00	\$5,760.00
7.	Fence Removal & Disposal	4.00	STA	55.00	\$220.00
8.	Open Ditch Fertilizing & Seeding	68.60	STA	55.00	\$3,773.00
9.	Roadside Spoil Seeding & Fertilizing	66.20	STA	55.00	\$3,641.00
10.	Furnish & Install Silt Screen Fence	1.00	JOB	2,500.00	\$2,500.00
	Estimated Main Open Ditch Subtotal :				\$294,208.55
	LATERAL N	<b>0</b> 1			
ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
11.	Topsoil Strip, Stockpile, Respread	49,900.00	SY	0.50	\$24,950.00
12.	Open Ditch Excavation	12,139	CY	2.95	\$35,810.05
13.	Spoil Bank Leveling (Two Sides)	29.94	STA	125.00	\$3,742.50
14. 15.	Furnish & Install 42" CMP, Driveway Culvert, STA 83+75	60	LF STA	65.00	\$3,900.00 \$1,646.70
15. 16.	Open Ditch Fertilizing & Seeding Roadside Spoil Seeding & Fertilizing	29.94 28.94	STA	55.00 55.00	\$1,646.70 \$1,591.70
10.		20.94	SIA	33.00	
	Estimated Lateral No. 1 Subtotal :				\$/1.640.95
	Estimated Lateral No. 1 Subtotal :				\$71,640.95
		TY MEASURES			\$71,640.95
ITEM		TY MEASURES QUANTITY	UNIT	UNIT PRICE	*71,640.95
17.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers		UNIT	UNIT PRICE	TOTAL \$25,000.00
17. 18.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile		UNIT	UNIT PRICE	TOTAL \$25,000.00 \$1,200.00
17. 18. 19.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile		UNIT	UNIT PRICE	TOTAL \$25,000.00 \$1,200.00 \$500.00
17. 18. 19. 20.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser		UNIT	UNIT PRICE	TOTAL \$25,000.00 \$1,200.00 \$500.00 \$5,500.00
17. 18. 19. 20. 21.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch		UNIT	UNIT PRICE	TOTAL \$25,000.00 \$1,200.00 \$500.00 \$5,500.00 \$32,130.00
17. 18. 19. 20. 21. 22.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch Furnish & Install 42" Dia. CMP Tile Outlet		UNIT	UNIT PRICE	TOTAL \$25,000.00 \$1,200.00 \$500.00 \$5,500.00 \$32,130.00 \$1,100.00
17. 18. 19. 20. 21. 22. 23.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch Furnish & Install 42" Dia. CMP Tile Outlet Furnish & Install Rock Riffles		UNIT	UNIT PRICE	\$25,000.00 \$1,200.00 \$500.00 \$5,500.00 \$32,130.00 \$1,100.00 \$2,500.00
17. 18. 19. 20. 21. 22.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch Furnish & Install 42" Dia. CMP Tile Outlet		UNIT	UNIT PRICE	\$25,000.00 \$1,200.00 \$500.00 \$5,500.00 \$32,130.00 \$1,100.00
17. 18. 19. 20. 21. 22. 23.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch Furnish & Install 42" Dia. CMP Tile Outlet Furnish & Install Rock Riffles		UNIT	UNIT PRICE	\$25,000.00 \$1,200.00 \$500.00 \$5,500.00 \$32,130.00 \$1,100.00 \$2,500.00
17. 18. 19. 20. 21. 22. 23.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch Furnish & Install 42" Dia. CMP Tile Outlet Furnish & Install Rock Riffles Channel Sediment Trap Excavation		UNIT	UNIT PRICE	\$25,000.00 \$1,200.00 \$500.00 \$5,500.00 \$32,130.00 \$1,100.00 \$2,500.00 \$4,194.90
17. 18. 19. 20. 21. 22. 23.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch Furnish & Install 42" Dia. CMP Tile Outlet Furnish & Install Rock Riffles Channel Sediment Trap Excavation  Estimated Water Quality Measures Subtotal:  Estimated Construction Subtotal:		UNIT	UNIT PRICE	\$25,000.00 \$1,200.00 \$500.00 \$5,500.00 \$32,130.00 \$1,100.00 \$2,500.00 \$4,194.90 \$72,124.90
17. 18. 19. 20. 21. 22. 23.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch Furnish & Install 42" Dia. CMP Tile Outlet Furnish & Install Rock Riffles Channel Sediment Trap Excavation  Estimated Water Quality Measures Subtotal:  Estimated Construction Subtotal:		UNIT	UNIT PRICE	\$25,000.00 \$1,200.00 \$500.00 \$5,500.00 \$32,130.00 \$1,100.00 \$2,500.00 \$4,194.90 \$72,124.90
17. 18. 19. 20. 21. 22. 23.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch Furnish & Install 42" Dia. CMP Tile Outlet Furnish & Install Rock Riffles Channel Sediment Trap Excavation  Estimated Water Quality Measures Subtotal:  Estimated Construction Subtotal:		UNIT	UNIT PRICE	\$25,000.00 \$1,200.00 \$500.00 \$5,500.00 \$32,130.00 \$1,100.00 \$2,500.00 \$4,194.90 \$72,124.90
17. 18. 19. 20. 21. 22. 23.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch Furnish & Install 42" Dia. CMP Tile Outlet Furnish & Install Rock Riffles Channel Sediment Trap Excavation  Estimated Water Quality Measures Subtotal:  Engineering Services: Design Survey Research, Preliminary Design & Informal Hearings		UNIT	UNIT PRICE	\$25,000.00 \$1,200.00 \$500.00 \$5,500.00 \$32,130.00 \$1,100.00 \$2,500.00 \$4,194.90 \$72,124.90 \$437,974.40 \$4,000.00 \$30,000.00
17. 18. 19. 20. 21. 22. 23.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch Furnish & Install 42" Dia. CMP Tile Outlet Furnish & Install Rock Riffles Channel Sediment Trap Excavation  Estimated Water Quality Measures Subtotal:  Engineering Services: Design Survey Research, Preliminary Design & Informal Hearings Design Plans, Engineer's Report & Formal Hearings		UNIT	UNIT PRICE	\$25,000.00 \$1,200.00 \$500.00 \$5,500.00 \$32,130.00 \$1,100.00 \$2,500.00 \$4,194.90 \$72,124.90 \$437,974.40
17. 18. 19. 20. 21. 22. 23.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch Furnish & Install 42" Dia. CMP Tile Outlet Furnish & Install Rock Riffles Channel Sediment Trap Excavation  Estimated Water Quality Measures Subtotal:  Engineering Services: Design Survey Research, Preliminary Design & Informal Hearings		UNIT	UNIT PRICE	\$25,000.00 \$1,200.00 \$5,500.00 \$5,500.00 \$32,130.00 \$1,100.00 \$2,500.00 \$4,194.90 \$72,124.90 \$437,974.40 \$4,000.00 \$30,000.00 \$19,000.00 \$9,000.00
17. 18. 19. 20. 21. 22. 23.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch Furnish & Install 42" Dia. CMP Tile Outlet Furnish & Install Rock Riffles Channel Sediment Trap Excavation  Estimated Water Quality Measures Subtotal:  Estimated Construction Subtotal:  Engineering Services: Design Survey Research, Preliminary Design & Informal Hearings Design Plans, Engineer's Report & Formal Hearings Final Plans, Specifications & Bidding		UNIT	UNIT PRICE	\$25,000.00 \$1,200.00 \$5,500.00 \$5,500.00 \$32,130.00 \$1,100.00 \$2,500.00 \$4,194.90 \$72,124.90 \$437,974.40 \$4,000.00 \$30,000.00 \$19,000.00
17. 18. 19. 20. 21. 22. 23.	WATER QUALIDESCRIPTION  Furnish & Install Detention Chambers Remove Existing Tile Furnish & Install Tile Cap to Existing Tile Furnish & Install 60" Dia. Drop Riser Furnish & Install 36" Dia. Tile to Open Ditch Furnish & Install 42" Dia. CMP Tile Outlet Furnish & Install Rock Riffles Channel Sediment Trap Excavation  Estimated Water Quality Measures Subtotal:  Estimated Construction Subtotal:  Engineering Services: Design Survey Research, Preliminary Design & Informal Hearings Design Plans, Engineer's Report & Formal Hearings Final Plans, Specifications & Bidding Construction Administration		UNIT	UNIT PRICE	\$25,000.00 \$1,200.00 \$500.00 \$5,500.00 \$32,130.00 \$1,100.00 \$2,500.00 \$4,194.90 \$72,124.90 \$437,974.40 \$4,000.00 \$30,000.00 \$19,000.00 \$9,000.00 \$7,500.00

# ENGINEER'S ESTIMATE OF PROBABLE COSTS ORTON SLOUGH DRAINAGE DISTRICT, WOODBURY COUNTY OPTION 3A: PROPOSED MAIN OPEN DITCH & LATERAL NO. 1

Legal & Auditor Services, Publications, Misc.				\$1,200.00
Crop Damages Main Open Ditch (25.3 AC of Work Limit, Corn @ \$745.00/A Lateral No. 1 (10.3 AC of Work Limit, Corn @ \$745.00/AC)	vC)			\$18,848.50 \$7,673.50
Contingencies				\$43,800.00
Improvement Project Cost Subtotal				\$591,996.40
Other Potential District Costs:				
Right-of-Way				
MAIN OPEN DITCH				
Taken R.O.W. (11.31 AC @ \$8,500.00/AC)				\$96,135.00
Easement R.O.W. (4.15 AC @ \$660.00/AC)				\$2,739.00
Lateral No. 1				
Taken R.O.W. (4.42 AC @ \$8,500.00/AC)				\$45,900.00
Easement R.O.W. (2.26 AC @ \$660.00/AC)				\$1,518.00
Engineering				\$5,000.00
Annexation				\$2,000.00
Reclassification				\$24,060.00
Geotechnical Investigation				\$7,500.00
Project Warrant Interest				\$55,000.00
Wetland Mitigation - 50% District for 4.4 AC				\$44,000.00
TOTAL ESTIMATED PROJECT COST, OPTION 3A:				\$875,848.40
Average Cost per Assessed Acre (2394 acres)				\$365.85
Average Cost per Watershed Acre (2761 acres)				\$317.22
Average Cost per Watershed Acre for 10 years				\$31.72
Other Non-District Costs:				
Culvert, Concrete Pipe, 3750D, Trenchless, 60" Dia.,				
STA 49+50 - I-29 - Iowa Department of Transportation Culvert, Corrugated Metal Roadway Pipe, 42" Dia.	170	LF	830.00	\$141,100.00
STA 88+00 - Barker Ave - Secondary Roads Culvert, Concrete Pipe, 3750D, Trenchless, 60" Dia.,	60	LF	65.00	\$3,900.00
STA 24+50 - D-51 - Secondary Roads	70	LF	830.00	\$58,100.00
Wetland Mitigation - 50% Landowner for 4.4 AC				\$44,000.00

1.

2.

3.

4.